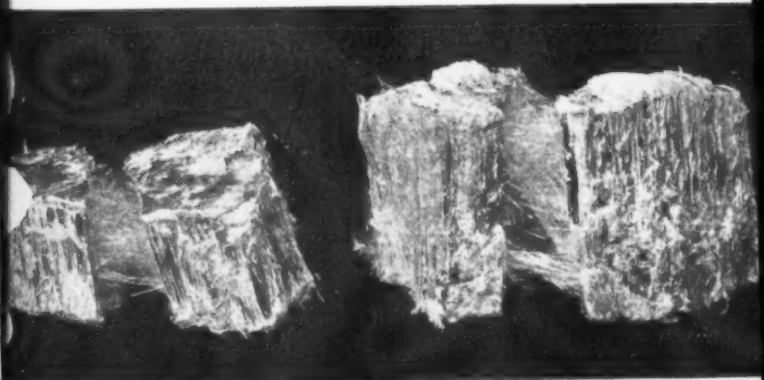
ASBESTOS



OCTOBER, NINETEEN THIRTY-SIX

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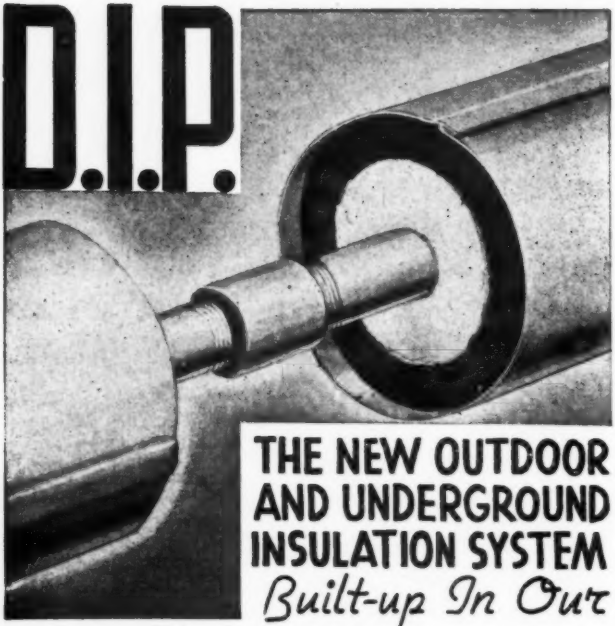

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"ASBESTOS"

A MONTHLY MARKET JOURNAL DEVOTED TO THE INTERESTS OF THE ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER, *EDITOR*

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THE FIFTIETH BIRTHDAY

of The Ruberoid Co., Which began in 1886, as the Standard Paint Company

October, 1936, marks the fiftieth anniversary of the founding of The Ruberoid Co., an organization which has become, in the past decade, a factor of constantly increasing importance in the asbestos industry.

The story of the company has been one of consistent growth and progress from extremely modest beginnings. The founder was the late Ralph L. Shainwald, who, in 1886, organized the Standard Paint Co., and purchased, for use as a plant, an old abandoned sawmill on the banks of the Raritan and Delaware Canal at South Bound Brook, N. J. This was the first Ruberoid factory.

The first *product* was what is now known as Ruberoid Asphalt Paint, an insulating and protective coating still widely used in the electrical and industrial fields.

In 1892, William Griscom, the chemist-superintendent at the little South Bound Brook plant, developed a method of vulcanizing the surface of a felt fabric which had previously been saturated with asphalt. The result, after some further experimenting, was the first roll of single-layer, ready-to-lay asphalt roofing ever made. This marked the birth of a new industry.

Because of its rubber-like characteristics, the new form of roofing was christened "Ruberoid." Later, a mineral surfacing was added, firmly embedded in the upper coating; and the material was then cut into shingle form, resulting eventually in the colorful, fire-resisting asphalt shingles of today. Mineral coated asphalt siding was another development in which the Ruberoid organization was a pioneer.

Since 1900 the history of the Company has been one of steady expansion, both in manufacturing facilities and in the number and variety of products manufactured. First,

the small plant at South Bound Brook was replaced by a group of modern factory buildings. In 1919 there was erected at Joliet, Ill., a great new factory, which is still one of the largest and most efficient plants in the world for the manufacture of asphalt roofing products. And in 1920 because of the wide acceptance of the name "Ruberoid" in the trade and among consumers, the original name of the organization was changed to The Ruberoid Co.

A long forward step was taken, in 1928 and 1929, thru the acquisition, by merger, of the assets of three companies long established in the building products field—the H. F. Watson Company, with two plants—one at Erie, Pa., and

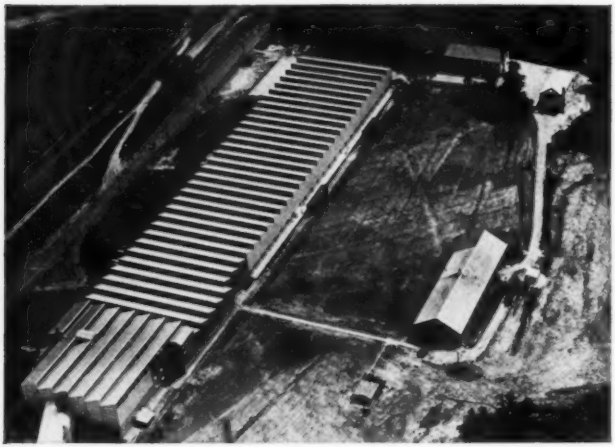
The First Ruberoid Plant

In this small factory, improvised from an abandoned sawmill and employing only fifteen men, was produced, in 1892, the first roll of single layer, ready-to-lay asphalt roofing ever made.

one at Chicago, Ill.; the Continental Roofing & Manufacturing Co., with plants at Baltimore, Md., and Mobile, Ala., and the Safepack Mills, with a plant at Millis, Mass. The result of these acquisitions was not only greatly increased productive facilities, but much more rapid shipping service to Ruberoid distributors thruout the country.

While The Ruberoid Co. had previously manufactured a number of asbestos products, it was in 1930 that large-

scale operations were started in the asbestos field. In that year a controlling interest was acquired in Eternit, Inc., operating at St. Louis, Mo., one of the largest plants in the world devoted to the manufacture of asbestos-cement shingles. The next step was the development of asbestos cement sidings, which have opened up a great new market



The Ruberoid Plant at St. Louis, Mo.

This entire plant is devoted exclusively to the production of asbestos and asbestos-cement building products, particularly Ruberoid-Eternit shingles and sidings. Similar products are manufactured at the South Bound Brook, N. J., plant, and an additional plant for the manufacture of asbestos-cement products is nearing completion at Mobile, Ala. For the production of its entire line of more than one hundred asphalt and asbestos building products, the Ruberoid Co., operates nine strategically located plants.

for dealers and applicators. Since then an addition to the South Bound Brook plant for the manufacture of asbestos-cement products has been completed, while at Mobile, Ala., a similar addition is under construction. In February of this year a subsidiary of The Ruberoid Co. acquired the

Asbestos Fibre

for the manufacture of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
Insulating Cements
Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

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Office and Mines
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CANADA

properties of the Vermont Asbestos Corporation at Eden, Vt., producers of chrysotile asbestos, thus assuring the Company of a controlled supply of this important raw material.

The list of Ruberoid asbestos and asbestos-cement products comprises today more than forty different items, including shingles and sidings, flat panelings and corrugated sheets, Newtile (simulating ceramic tile), Newmarble (simulating marble), heavy rollboard and millboard, paints and roof coatings, pipe coverings, fireproof insulating board, mineral wool, high temperature products, and asbestos insulating cements.

Herbert Abraham, President of the Company, has been associated with the organization since 1903, and thus thru the period of its greatest growth. His first position, obtained immediately following his graduation from Columbia University as a chemical engineer, was that of chief chemist and research director. In 1913, he was appointed assistant manager in charge of sales, and in 1917 general manager of sales. In 1920 he became vice president, and in 1924 was elected president. In addition to his work for the Company, he has been active in civic affairs and in various trade organizations. In 1917 and 1918 he acted as chairman of the Roofing Committee of the War Industries Board, and in 1919 became president of the Asphalt Shingle and Roofing Institute. In 1933 and 1934 he was acting president of that institute, and also chairman of the Code Authority of the Shingle and Roofing Industry.

The person longest associated with The Ruberoid Co. is Miss E. M. Johnson, secretary of the Company, who was a stenographer in the office of Ralph L. Shainwald when he first started the business in the abandoned sawmill at South Bound Brook just half a century ago.

Since those days, Miss Johnson has seen the business grow from a little make-shift plant, with only two products and a total of fifteen employees, into a company with assets of more than $16,000,000 with nine large plants employing more than 3,000 people, with more than one hundred widely diversified building products, and with distributors located in virtually every section of the United States.

From

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to

FINISHED PRODUCT

Johns-Manville carries on the entire process of manufacturing asbestos. Mines in Arizona and Canada, thirteen factories located strategically across the continent and branch offices in all large cities assure prompt and efficient service.

In a hundred ways Johns-Manville products contribute to the comfort of modern life and to the efficiency of industrial establishments. Packings, high temperature insulations, refractory cements, low pressure insulations, asbestos roofings, brake linings and industrial friction materials, flooring and acoustical treatment form some of the major items manufactured by Johns-Manville.

Through constant research in the J-M Laboratories, scores of other items have been developed, important to the economic and physical welfare of people throughout the country.

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CONSERVING WATER

By F. R. Cozzens

Nowhere else in the field of Public Welfare has asbestos given man greater service than in the protection of his water supply. Successive drouths have made it necessary to go deeper into the earth for a dependable volume of fresh water, and in many sections, springs, cisterns, and reservoirs have been replaced entirely by driven wells 300 to 600 feet in depth. Water at such depths is usually free of surface pollution but quite often contains excessive foreign matter. Lime, sulphur, salt, and various colored shales give water an obnoxious taste, and certain other materials, such as oil and coal sludge, may be extremely dangerous.

To meet safety requirements, foreign content must be reduced, but since private owners of drilled wells and small public groups cannot afford costly filtration equipment, mineral control was a serious obstacle to deep water service for many years. After sundry types of commercial and home-made filters had been tested out and abandoned, an asbestos product came into the picture in a rather remarkable way.

While conducting a series of tests near Lathrop, Ohio, in 1930, Prof. John C. Martin, manager of the Martin Construction Company found that oil and shale content was reduced as much as 50% by filtering water thru cellulose mats containing 60% short fibre asbestos. After continuous use over a period of days, coal and shale residue was collected from the mats, and Martin observed that when the asbestos was replaced frequently, the foreign content with but one exception was lowered sufficiently to pass all state tests. Further experiments gave even more efficient results but carried the discovery beyond reach of the average consumer. Later, however, the process was simplified and the private well-owner now obtains practically the same good results with a specially constructed filter made up of charcoal, asbestos fibre, and a few minor chemicals.

The modern deep-well filter is a box-like structure

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WITH an extensive background of experience in the production and sales of asbestos products of all kinds, Keasbey & Mattison Company is in a position to give you valuable assistance.

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K & M quality materials have been in the field for more than 60 years. There are a few territories open for desirable Distributors or Approved Contractors. Why not get in touch with us?

K&M best in asbestos

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usually made of concrete placed in direct connection with the pump, and the size is 3x3x3 feet. It is filled with crushed charcoal and short fibre asbestos pulp, in a ratio of one pound of pulp to each four pounds of charcoal. The material is lightly tamped, and a one-inch layer of asbestos fibre is spread on top. Water from the pump enters the filter thru a removable lid, and is collected from a connecting pipe at the bottom. All residue and detrimental foreign material with the exception of lime, sodium, and soluble minerals, are caught in the pulp. Mineral matter, lime, etc., when present in excessive amounts, is controlled by the introduction of commercial water softeners and similar chemicals. In this way, the asbestos pulp becomes a binder for chemicals, many of which could not be utilized for ordinary filtration in any other manner. At intervals of six months, the filter vault is emptied and the contents cleaned by fire-gun, or replaced with new materials.

In many localities, deep wells are now depended upon to supply water for oil field operations and similar industries. Filtration is of lesser importance, the main problem here being evaporation. Water must be held in storage tanks over long periods of time. These tanks usually of steel are in sizes ranging from 100 to 500 barrels, and in torrid weather evaporation is tremendous. Modern operators control the situation thru the use of three types of asbestos insulation. Large tanks are covered with three to six layers of plain asbestos building paper, alternated with two layers of corrugated insulation board. Sections are held snug with adhesive tape, and the outside layer is given a heavy coating of asbestos roofing cement. This is commonly known as the aircell method. Medium size tanks are covered with asbestos boiler insulation, and very small tanks are protected with asbestos sponge felt. Caulking compounds, and weatherproof tape containing a high percentage of asbestos fibre are freely used on all connections.

In certain other districts, running streams supply water for both private and industrial use. In addition to filtration and evaporation, we have the problem of tem-

ASBESTOS

Arizona Crude
Canadian Crude
Canadian Spinning Fibre
Canadian Shingle Fibre
Cyprus Asbestos
Italian Crude
Russian Crude
Rhodesian Crude
South African Blue Crude
South African Yellow Crude

ASBESTOS LIMITED INC.
8 West 40th Street : New York City

Works: MILLINGTON, N. J.

perature control. Water must be conveyed sometimes for miles in pipe lines, ranging from one to six inches in diameter. These lines are for the most part buried underground, but surface depressions, ditches, etc., often necessitate exposed sections which are sufficient to cause serious troubles in zero weather. Such exposed pipe is therefore protected by boxing filled with sawdust and asbestos fibre. The new prefabricated pipe is popular in small connecting units.

As a major auxiliary in filtration, evaporation and temperature control asbestos plays a role which cannot be taken by any other known material. In all cases there is a substantial saving in cash and remarkable freedom from tie-ups and serious water shortage.

COMMENTS--Japan

J. E. Triganne, Sales Manager of Asbestos Corporation Limited, Thetford Mines, Canada, has recently returned from a trip to Japan.

Mr. Triganne was much impressed with the industrial activity in that country. Of course his contacts were mainly with firms engaged in various branches of the asbestos industry, all of whom he found to be busy and most progressive.

General conditions seem to indicate a flourishing asbestos industry.

Plants are well equipped with modern machinery generally speaking and manufacturers are quick to take advantage of technical improvement.

"Why Quit Our Own" by George N. Peek, former Administrator of AAA in collaboration with Samuel Crowther, is recommended for a rational, comprehensive and constructive analysis of the stupid handling of money and trade in international transactions. This book very clearly explains this most interesting subject, and will be of interest to all Americans, especially those in trade, foreign or domestic.

AGRICULTURE vs. INDUSTRY

An Editorial

The August 1936 issue of *Factory Management and Maintenance* presents a complete graphic comparison between agriculture, industry and other occupations, which should be studied by every citizen, especially by the Tugwells, Wallaces and other theorists in Washington.

The United States Census shows that in 1930

Total gainfully employed	48,830,000
Employed in Industry	14,111,000
Employed in Agriculture	10,472,000
Employed in Other Work	24,247,000

In the past three years all the emphasis for relief has been put on agriculture and the inference to be drawn is that industry must pay the taxes, absorb the unemployed, be regulated and regimented to death and otherwise mistreated.

In the 110 years from 1820 to 1930 the total population increased 13 times, while jobs in industry increased *thirty-two* times. If agriculture and other occupations had produced a proportionate number of jobs there would be no unemployment.

But statistics show that *one-half* the present number of those in agriculture could produce all that is now being produced on the farms if proper equipment and system were to be used.

Of course industry has made the inventions and produced the machines used on the farm to lighten labor and increase man hour output. At the same time industry has absorbed more and more of those who *theoretically*, are made jobless by machine use.

A study of these charts and figures must convince any fair minded person that the load on industry is almost at the point where a very slight increase will break its back.

Get and study these facts.

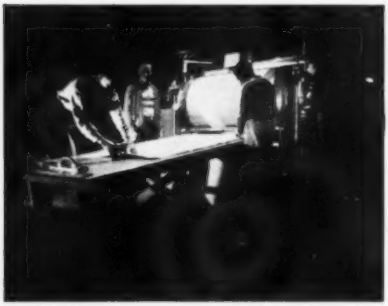
What business needs today are fewer orders from politicians and more from customers.-*The Shaft.*

VICTOR WINS BLUE RIBBON

The 1936 Victor Gasket Guide, published by the Victor Mfg. & Gasket Company contains some very interesting photographs.

One of these "Making Asbestos Millboard" was, in fact, awarded the Blue Ribbon and Honorable Mention at the annual Convention of the Photographers Association of America, held on August 27th.

The Victor Company's series of catalog pictures has aroused some complimentary discussion in the trade because of the dramatic fashion in which factory scenes are



"Making Asbestos Millboard"

Prize photo in the "Industrial Interiors" Group at the Convention of the Photographers Association of America.

depicted. The illustration, shown above, was taken at night, with the regular night crew serving as models. Production of Victor's special gasket asbestos was going on at the time and the man at the left is actually "mike-ing" the newborn sheet, according to the Victor company.

The award by the Photographers Association to this print was in the general group "Industrial Interiors" in which two of Victor's prints were entered, one winning the ribbon and the other retained by the Association for hanging at the convention.

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TRAINING COURSES--

sponsored by Johns-Manville for building material dealers

Nine training courses for building material sales personnel are to be sponsored in nine strategetically located cities this fall and winter by the Housing Guild Division of Johns-Manville.

To launch the Housing Guild plan in the fall of 1935, Johns-Manville sponsored special "clinics" in New York

A. A. Hood, Manager of the Housing Guild Division of Johns-Manville. Mr. Hood has made an intensive study of the problems of retail distribution of building materials and has written several recognized textbooks on the subject. He developed the Guild system and will be in charge of the Training Courses.

City and Chicago, where 576 retail building material dealers assembled to hear the plan revealed, with the result that the total enrollment for four special courses of training for building material dealer sales managers and salesmen held in these two cities reached 300.

A book "Training for Profits" supplements the

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clinics and by supplying pertinent information regarding the Housing Guild system in printed form, prepares the way for a considerably enlarged scope of activities this coming season. The nine dealer personnel training courses will be held according to the following schedule:

Atlanta	—	Nov. 16 to 25 inclusive
New York	—	Jan. 4 to 16 inclusive
Chicago	—	Jan. 18 to 30 inclusive
Cleveland	—	Feb. 1 to 13 inclusive
Kansas City	—	Feb. 15 to 27 inclusive
Minneapolis	—	Mar. 8 to 20 inclusive
New Orleans	—	Mar. 29 to April 10 inclusive

one at a city yet to be selected on the south Pacific Coast from April 26 to May 8; and another on the north Pacific Coast, city to be named later from May 17 to 29 inclusive.

These training courses, which supply the highly specialized information and practical knowledge necessary for a sales force to sell the products and services of all local factors of the building industry are conducted for two weeks. For the first nine days, both salesmen and sales managers are enrolled; the last three days are devoted exclusively to management training and are only for those men who are to direct activities locally.

A. A. Hood, who for the last 15 years has made an intensive study of the problems of retail distribution of building materials and who has written several textbooks on the subject, developed the Guild system and will be in charge of the training. He will be assisted by G. Meissner, who will outline advanced estimating systems for all types of contractural work; Paul E. Kendall who will deal with problems of selling the farm market; J. L. Wood, Johns-Manville Credit Manager, who will conduct a thoro study of consumer financing; H. M. Shackelford, Sales Promotion Manager and R. L. Johnson, his assistant who will offer training in the development of practical advertising and sales promotion plans. Heads of several university business schools as well as sales managers in businesses other than the building industry will be guest speakers.

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CONTRACTORS AND DISTRIBUTORS PAGE

Slogan

Only a very few slogans (see page 24 in our August number) have reached us up until time of going to press. All insulation contractors are urged to send in their ideas of the slogan which will be of most benefit to the Insulation Industry.

We have some good ones but will withhold publication until others are received.

A real slogan and the constant use of it by all insulation contractors will boost the idea of insulation and its proper application.

Insulation Contractors will be especially interested in the article on page 24, "Insulating Techwood."

Building

Residential building started during August attained a level of activity not seen since March, 1931, according to figures just released by F. W. Dodge Corporation. Not only did the August volume exceed the figure for July by about 41 per cent but last month's record of residential building contracts was 2½ times the size reported for August, 1935. For the 37 eastern states and the District of Columbia the figures follow:

August 1936—$100,522,500
July 1936— 71,993,700
August 1935— 40,528,300

Part of the current gains are attributable to accelerated activities under the PWA housing program, but the bulk of residential work undertaken in August represented private operations. Gains in residential work, as compared with totals for August 1935, were well distributed geographically, with each major area in the territory east of the Rocky Mountains sharing in the general advance. (On less perfect data, i. e., building permits, striking advances over a year ago were likewise shown for the Rocky Mountain and Pacific Coast districts.)

The total volume of construction awards, covering all types of work, undertaken in the 37 eastern states during August amounted to $275,281,400; this was in contrast with $294,734,500 reported for July of this year and represents a gain of about 63 per cent over the figure of $168,557,200 reported for August, 1935. The decline from July was chiefly the result of decreased contract lettings for civil engineering projects under the PWA program of the Federal Government.

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HYDE PARK, VERMONT

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MARKET CONDITIONS

General Business.

Quoting from the National City Bank letter for October: "Domestic business reports have continued decidedly of a nature to inspire confidence for the remainder of the year . . . . . Trade increases have kept pace with the increase in production. It is calculated by the Standard Statistics Co. that the output of consumption goods during the third quarter was 13.5 per cent more than in 1935, but department store sales in July and August gained 11 per cent, rural retail trade was 20 per cent larger, variety chains show a 15 per cent increase, and the mail order gains have ranged from 23 to 35 per cent.

These figures indicate that the goods made have been selling satisfactorily, and the commitments of merchants for fall delivery show that they expect no recession in trade.

"The buying power is coming from the increased industrial employment, the larger farm income, the Government disbursements, and greater dividend payments by the industries. There is no great fear that the income from any of these sources will fall off materially."

Asbestos. Raw Material.

Reports received in the raw asbestos market are more optimistic than for several years. One of these (from Canada):

The market for raw asbestos, which has shown considerable expansion during the past few months in comparison with recent years, continues strong. Fibres of all grades are moving rapidly, and this applies particularly to Shingle fibres at the present time. The seasonal demand for Shorts is well up to expectations. Prices are very firm.

And another: The Canadian Mines are enjoying the greatest volume of business since the depression, in fact, there is no depression in Canadian Asbestos mining at present. Mills are operating at capacity. Old mills which have been idle for some years will soon be in operation to meet the increased demand. Development work is being done on old mines also, indicating that they will be opened at an early date. The coming year will show all Canadian

Mines operating at capacity, for even with the difficulty of European countries to obtain foreign exchange to pay for asbestos, the United States requirement of raw asbestos shows a very marked increase.

Imports into the United States from South Africa, especially of Blue Asbestos and Amosite, show a marked improvement.

Asbestos—Manufactured Goods.

Textiles. There has been some decline in volume, but prices, for the most part, have been firm.

Paper and Millboard. Usual seasonal increase is noticeable in this market, the volume of paper being increased considerably by demand for low pressure insulations. Millboard market also shows normal demand. Prices are firm.

Insulation. High Pressure. There is noticeable improvement in demand for these goods with prices firm. 85% Magnesia continues to dominate the field, all other insulations being measured from the standard of 85% Magnesia performance, cost, long life, and flexibility.

Insulation. Low Pressure. Increasing demand is noted in this market, this improvement being particularly noticeable in the contracting end of the Industry. Prices are steady.

Brake Lining. It is increasingly evident that the production and sale of automobiles will exceed even high expectations during the next year or so. Coupled with this anticipated increase in automotive production is the certainty that inspection laws will tend to become more drastic and brake relining more frequent. Result—increase in volume of brake lining sales.

Asbestos-Cement Products. Demand for asbestos-cement shingles, particularly sidings, continues to keep existing plants running at full capacity with some delay in getting prompt shipments. Prices are firm and market conditions generally very satisfactory.

There is also a steady improvement in the demand for industrial products such as flat and corrugated asbestos sheets.

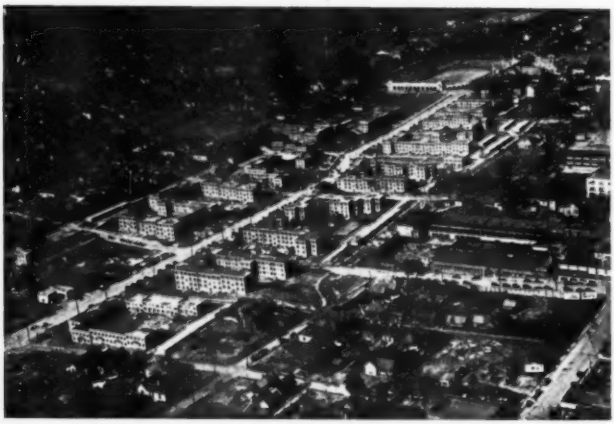
The above are comments from men in close touch with the various markets. The opinions of anyone interested in the merchandising of asbestos or asbestos products are welcomed at all times.

INSULATING TECHWOOD--

the 25 acre Federal Housing Project

One of the most interesting of recent insulation jobs was the Federal Housing Project at Techwood, Atlanta, Ga., where heat is being carried to 700 families.

The project actually covered 25 acres, on which there are 34 buildings, a total of 603 apartments, or 2,124 rooms. The entire cost will be around $3,100,000.



Airview of the Federal Housing Project at Techwood, Ga., where 66,000 feet of insulation was installed.

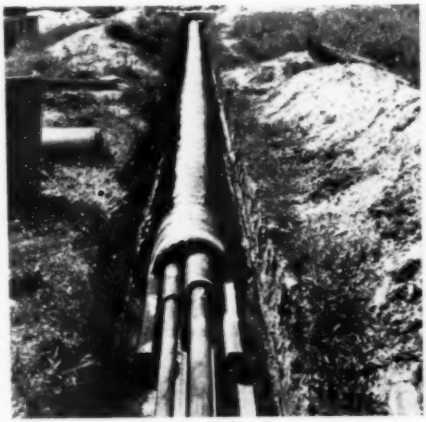
The insulation portion of the job, in which of course the readers of "ASBESTOS" are most interesed, involved, roughly, 66,000 feet of insulating materials and consisted of:

First: 6000 feet of underground mains for which 1½" thick asbestos sponge felted sectional covering with waterproof jacket was used. This was encased in Therm-O-Tile Conduit. The photo on page 25 shows the Thermo-O-

Tile type of underground steam conduit construction. Further information on this type of conduit will be willingly furnished by the manufacturers.

Second: 33,000 feet of standard magnesia covering was used for the heating systems in the buildings.

Third: For the plumbing systems 6,000 feet of Anti-Sweat, 14,000 feet of 3 ply Asbestocel and 7,000 feet of 2 ply Asbestocel were used.



The Therm-O-Tile type of construction. With this type of underground steam conduit an efficiency of 90 per cent or better (depending of course upon the thickness and kind of insulation used) is easily obtained.

In this project steam is distributed from a central steam plant thru the underground Therm-O-Tile steam conduit to all of the apartment buildings shown in the photograph on page 24, the steam pressure in the distributing mains being approximately 50 lbs. per square inch. This pressure is reduced at each building to a pressure suitable for the steam heating and hot water systems.

4,400 feet of the insulation used in the underground portion of the contract was installed by the Brooks-Fisher Insulating Co., Atlanta, Ga., contractor for H. W. Porter & Co. A main line, approxmiately 2,000 feet long, which supplies steam to the buildings, was installed by the

Georgia Power Co. with their own mechanical forces. They used the Therm-O-Tile Conduit System and insulated the piping themselves.

The architects were Burge & Stevens; the General Contractor was the J. A. Jones Company, and the heating and plumbing contractor was the O'Pry Heating & Plumbing Company, all of Atlanta.

ASBESTOS CORPORATION LTD.

emphatically denies rumor

Readers may have noticed in Montreal and New York newspapers an article relative to the ownership and control of Asbestos Corporation Limited, of Thetford Mines, P. Q., Canada.

The article was in the form of an anonymous letter and suggested that control of Asbestos Corporation Limited had passed into the hands of an English manufacturing concern.

The Asbestos Corporation Limited has, over the signature of Kenneth T. Dawes, Vice President, emphatically denied this rumor, and states unequivocally that Asbestos Corporation Limited is neither owned, nor controlled, nor in the hands of any manufacturing concern, and that it remains the largest independent producer of asbestos in the world.

"ASBESTOS" has been requested by Asbestos Corporation Limited to publish the above statement.

RAW ASBESTOS

N. V. NEDERLANDSCHE ASBEST MY

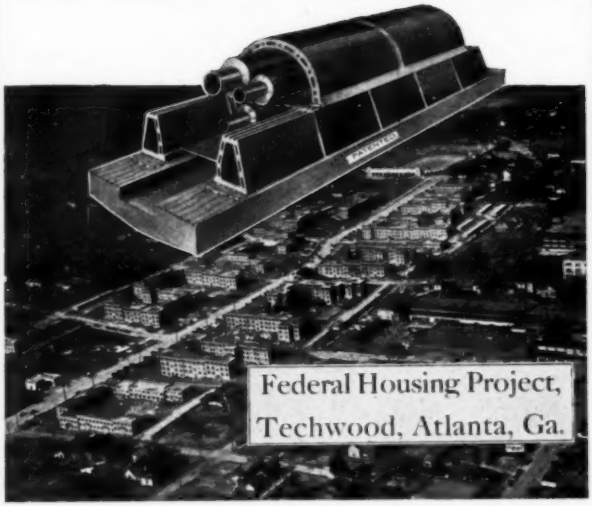
P. O. BOX 803

ROTTERDAM (Holland)

Stocks at

Hamburg Rotterdam

THERM-O-TILE



Federal Housing Project,
Techwood, Atlanta, Ga.

Be sure to read, in this issue, about the 6000 ft. of Therm-O-Tile Underground Steam Conduit used at the Federal Housing Project, Techwood, Atlanta, Ga., which covers 25 acres. Supplies

Heat to 700 Families

Now being installed at Cedar Central Housing Project, Cleveland, Ohio ● Approved in specifications for use in other Federal Housing Projects ● Sold and installed by Johns-Manville Construction Units in All Principal Cities. Inquiries referred to them or to us will bring you complete information.

H. W. PORTER & CO., INC.

825 FRELINGHUYSEN AVE., NEWARK, N. J.

Africa (Rhodesia).

(Statistics published by Rhodesia Chamber of Mines)

	July 1936 Tons (2000 lbs.)	Value		
Bulawayo District				
Nil Desperandum (Afr. Mng. Co. Ltd.)	396.70	£ 4,976	4	1
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	3,663.32	52,913	1	4
Victoria District				
D. S. O. (Mashaba Rho. Asb. Co. Ltd.)	135.00	2,016	10	...
King & Gath's (Rho. & Gen. Asb. Corp., Ltd.)	603.30	8,059	1	7
	4,798.32	£67,964	17	....
July 1935	*3,852.83*	*£55,315*	*10*	....

Africa (Union of South)

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	July 1936 Tons (2000 lbs.)
Transvaal	
Amosite	556.58
Blue	32.03
Chrysotile	1,314.53
Cape	
Blue	201.56
	2,104.70

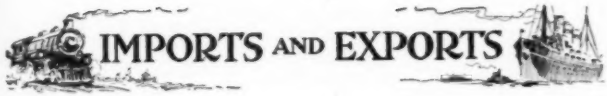
Canada.

(Statistics published by Bureau of Mines, Province of Quebec)

	July 1935 Tons (2000 lbs.)	July 1936 Tons (2000 lbs.)
Fibre	15,398	27,749

Cyprus

See page 32 giving exports of Asbestos from Cyprus for the year 1935.



Imports into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos:

	July 1935 Tons (2240 lbs.)	July 1936 Tons (2240 lbs.)
Africa (Br. S.)	418	88
Canada	11,038	17,833
Cyprus, Malta and Gozo	.. ..	509
Italy	50	.....
Soviet Russia	744	3
United Kingdom	213	1
	12,463	18,434
Value	*$474,999*	*$583,406*

Tabulation of Crudes and Fibres:

Crude (Africa—Br. S.)	418	88
Crude (Canada)	120	166
Crude (Soviet Russia)	9	3
Crude (United Kingdom)	45	1
Mill Fibre (Canada)	4,038	6,101
Mill Fibre (Soviet Russia)	735	.....
Lower Grades (Canada)	6,880	11,566
Lower Grades (Cyprus, etc.)	.....	509
Lower Grades (Italy)	50	.....
Lower Grades (United Kingdom)	168	.....
	12,463	18,434

Manufactured Asbestos Goods:

	July 1936 Pounds
Austria (Packing fabricated and unfabricated)	656
Canada (Packing fabricated and unfabricated)	5
Germany (Yarn)	307
United Kingdam (Yarn)	4,387
United Kingdom (Packing fabricated and unfabricated	1,381
United Kingdom (Woven Fabrics)	2,329
	9,065
Value	*$5,210*

Various other asbestos manufactures (not classified by the U. S. Dept. of Commerce) were imported to the value of $1,055.

This figure covered $1,016 from Germany and $39 from United Kingdom.

Total Value of Manufactured Asbestos Goods imported was, in July 1936, $6,265; in July 1935 $4,998.

Exports from U. S. A.

Exports of Unmanufactured Asbestos during July 1936 amounted to 342 tons, valued at $27,912; compared with July 1935 when 64 tons, valued at $5,295, were exported.

Exports of Manufactured Asbestos Goods:

	July 1935		July 1936	
	Pounds	Value	Pounds	Value
Paper, Mlbd. and Rlbd.	192,953	$19,453	158,360	$11,800
Pipe Covering and Cement	202,508	11,227	426,776	17,416
Textiles, Yarn and Pkg.	95,088	46,845	132,623	61,170
Brake Lining—				
Molded and Semi-molded	.....	60,823	.....	49,380
Not Molded	133,585[1]	21,745	237,491[1]	27,038
Clutch Facings	.....	.....	24,034[3]	5,802
Asbestos Roofing	3,909[2]	9,337	3,090[2]	16,525
Magnesia and Mfrs. of	189,781	15,205	101,520	11,409
Other Asbestos Mfrs.	175,108	25,260	234,884	18,950

[1]Lin. Ft. [2]Sqs. [3]Units

Exports of Raw Asbestos from Canada

(Figures by Dominion Bureau of Statistics)

	August 1935 (2000 lbs.)		August 1936 (2000 lbs.)	
	Tons	Value	Tons	Value
United Kingdom	395	$ 21,851	651	$ 48,031
United States	5,886	282,626	7,689	376,683
Australia	116	5,798	150	7,500
Belgium	50	3,500	228	11,398
France	392	20,405	60	4,612
Germany	370	34,475	702	53,208
Italy	44	3,960	.....	.....
Japan	485	23,515	540	22,273
Norway	.....	.....	5	350
Netherlands	132	4,565	.....	.....
Poland	.....	.....	50	3,575
Spain	139	7,300	.....	.....
	8,009	$407,995	10,075	$527,630

Exports of Raw Asbestos from Canada (Cont'd)

	August 1935		August 1936	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Sand and Waste				
United Kingdom	440	9,395	414	8,174
United States	9,797	159,319	14,073	225,544
Belgium	60	1,065	.....	.....
Germany	61	1,136	141	2,640
Japan	15	203	.....	.....
Sweden	.....	.....	35	451
	10,373	$171,118	14,663	$236,809
Grand Total	*18,382*	*$379,113*	*24,738*	*$764,439*

Imports and Exports by England

Imports of Raw Material.

	August 1935		August 1936	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Africa (Rhodesia)	1,247	£28,605	1,321	£30,407
Africa (Union of South)	912	15,828	1,128	16,633
Africa (Port. E.)	.....	.....	.....	2
Austria	10	70	.....	.....
Australia	.....	.....	7	340
Canada	445	4,525	1,110	14,991
Cyprus	.....	.....	134	2,122
Czechoslovakia	2	19	.....	.....
Finland	13	82	17	119
Italy	4	226	.....	.....
Soviet Union (Russia)	.....	.....	236	3,410
U. S. of America	.....	77	20	591
	2,633	£49,432	3,973	£68,615

Exports of Asbestos Manufactures:

	August 1935		August 1936	
	Cwts.	Value	Cwts.	Value
To Irish Free State	3,153	£2,705	3,098	£ 2,923
British India	5,282	9,001	4,183	9,009
Australia	845	5,322	935	3,982
Other British Countries	13,328	20,806	15,634	23,091
Netherlands	1,266	4,341	1,402	4,093
Belgium	561	3,389	639	3,419
France	665	2,593	460	3,850
Italy	411	5,170	118	1,364
Other Foreign Countries	16,874	34,529	9,014	29,287
	42,385	£87,856	35,483	£81,018

Exports of Asbestos from Cyprus—1935

The following table of exports of asbestos from Cyprus is given in the pamphlet received from the Canadian Dominion Bureau of Statistics under the title "The Asbestos Mining Industry and the Asbestos Products Industry in Canada—1935" and the statement is made that twelve mills were reported in operation during that year and that the entire output of the Cyprus asbestos mines is exported:

	Year 1935	
	Tons (2240 lbs.)	Value
To Belgium	350	£ 5,101
Denmark	741	9,440
Egypt	21	72
Germany	34	164
Holland	43	594
Italy	389	4,939
Japan	1,654	8,064
Palestine	12	38
Portugal	208	2,744
Spain	429	4,455
Syria	.....	2
United Kingdom	115	418
United States of America	3,517	14,143
	7,513	£50,174

Exports of Raw Asbestos from South Africa

	June 1936	
	Tons (2000 lbs.)	Value
To Australia	208	£ 2,563
Belgium	109	1,519
Canada	24½	367
France	121	1,865
Germany	124	2,593
Holland	33	660
India	23	139
Japan	162	1,615
Spain	33	448
United Kingdom	941½	11,698
United States of America	203	4,351
Uruguay	10	227
	1,992	£28,045

Imports of Asbestos raw and manufactured (various countries).

The pamphlet recently published by the Dominion Bureau of Statistics "The Asbestos Mining Industry and the Asbestos Products Industry in Canada—1935" gives

several tables of interest which seem worthy of reprinting:

Japan—Imports of Asbestos and Manufactures thereof:

	1934		1935	
	(100 Kin)[1]	Yen[2]	(100 Kin)[1]	Yen[2]
Lump, powder or Fibre ..	341,911	4,067,522	360,481	4,914,416
Other	5,412	486,134	10,176	621,681

[1]Kin = 1.3228 lbs. [2]Yen—Nominal quotations in Montreal, week ending December 30, 1935 = $0.2898.

France—Imports of Asbestos and Manufactures thereof:

	1934		1935	
	Kilos	Francs	Kilos	Francs
Paper and Cardboard	192,900	1,529,000	165,100	1,173,000
Rope and cord, mixed	7,500	216,000	5,600	142,000
Tresses, woven and Other	66,200	1,597,000	39,700	855,000
Brake Lining and other friction	8,600	259,000	94,500	2,634,000
Asbestos, crude	10,220,500	1,605,000	12,128,300	17,588,000

China:

Imports of asbestos and manufactures thereof into China during 1935 were valued at 229,200 gold units as compared with 224,900 gold units in 1934. The average value of a gold unit in Canadian funds was $0.68 in 1935 as against $0.66 in 1934.

Australia:

The value of crude asbestos imported into Australia totalled £60,607 during 1934-35 as compared with £34,538 in 1933-34 (fiscal years ending June 30). Of the total in 1934-35 £42,592 came from South Africa; £11,047 from Canada; £4,765 from Rhodesia.

ASBESTOS STOCK QUOTATIONS

			September 1936		
	Par	Div.	Low	High	Last
Asbestos Corp. (Com.) New V. T.	np	–	49	70	70
Certainteed (Com.)	np	–	9	11¼	10⅝
Certainteed (Pfd.)	100	7	99½	119	119
Johns-Manville (Com.)	np	–	113	121¾	118½
Johns-Manville (Pfd.)	100	7	122¼	126	123½
Raybestos-Manhattan (Com.)	np	1.50	32¼	36	35
Ruberoid (Com.)	np	1.00	75	90	85
Thermoid (Com.)	np	–	8⅝	9¾	9½
Thermoid (Pfd.)	100	–	70	80	80

NEWS OF THE INDUSTRY

Birthdays:

W. M. Paxton, Raybestos Division, Bridgeport, Conn., October 14th.

Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14th.

R. H. Shainwald, President, Plant Rubber & Asbestos Co., San Francisco, Cal., October 15th.

R. J. Evans, Chairman, Asbestos Mfg. Co., Huntington, Ind., October 15th.

David E. Kelley, President, Kelley Asbestos Products Co., Kansas City, Mo., October 16th.

Thomas Lehon, President, The Lehon Co., Chicago, Ill., October 17th.

Wm. F. Reed, Secretary and Treasurer, Asbestos Distributors, Inc., Port Chester, N. Y., October 17th.

A. K. Burgstresser, President, Norristown Magnesia & Asbestos Co., Norristown, Pa., October 26th.

L. R. Hoff, President, Johns-Manville Sales Corporation, New York City, N. Y., October 27th.

A. L. Wade, President, Asbestos Insulations, Reg'd., Montreal, P. Q., Canada, October 28th.

Geo. L. Abbott, President & General Manager, Garlock Packing Co., Palmyra, N. Y., October 31st.

F. E. Byrnes, Vice President, Vermont Production Co., Inc., New York City, N. Y., October 31st.

Ernest S. Sprinkmann, President, Fred Sprinkmann & Son, Milwaukee, Wis., November 3rd.

G. M. Righter, Export Manager and Eastern Sales Manager, United States Asbestos Division, Raybestos-Manhattan, Inc., New York City, N. Y., November 10th.

R. B. Crabbs, Vice President, The Philip Carey Co., Lockland, Cincinnati, O., November 11th.

H. Parkinson, Head of the Asbestos Division, George MacLellan & Co., Ltd., Maryhill, Glasgow, Scotland, November 13th.

Richard V. Mattison, M. D., Ambler, Penna., November 17th.

We extend to all the above named gentlemen, congratulations and best wishes.

C. W. Hanslip, President, Standard Brake Lining Co., is contemplating establishing an asbestos yarn manufacturing plant at Houston, having acquired a three-acre tract of land at 2100 Wayside Drive for that purpose.

The Asbestos Manufacturing Company of Huntington, Ind., has recently issued its Catalog No. 250 on Amco Brake Linings

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **CLOTHS**

POWDER

PROCESSED FIBRES

Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

100% Amosite insulation
Asbestos mattress filler
85% Magnesia insulation

***The* Cape Asbestos Co.** Limited
Morley House, 28-30 Holborn Viaduct, London, E.C.I.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
369 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—CALEDONIA 5-4044

and Clutch Facing. This catalog is attractively printed in red and black.

"Shelter" is the title of a 24 page booklet, published by The Ruberoid Co., in celebration of the Fiftieth Anniversary of the Company. The booklet whose author is Herbert Abraham, President of The Ruberoid Co., is, to quote from the title page "A Brief Glimpse at the Homes of Men Down through the Ages," and is both written and illustrated in a most interesting style.

Johns-Manville Corporation. Paul E. Kendall, former FHA. Director for Missouri, whose entire business experience has been in the building materials field, has been added to the staff of the Housing Guild Division of Johns-Manville. Mr. Kendall will specialize in problems pertaining to the merchandising of building materials to farmers. He will deal with this phase of the business during a series of training courses for dealer personnel to be sponsored by the Housing Guild Division of J-M during this fall and coming winter. He will also assist Johns-Manville in the formulation of sales plans to reach the farm trade. Mr. Kendall resigned as Secretary-Manager of the National Door Manufacturers Association in Chicago, to accept his new position with Johns-Manville.

Johns-Manville Corporation. A new sales plan has just been launched under the direction of C. C. Simoni, who is in charge of low pressure insulation distribution at Johns-Manville. A 40-minute talking motion picture "Here's How for New Houses" and a consumer booklet "I Am Your Master Plumber" and a book detailing the entire plan have been prepared, these for use in a country-wide series of group meetings of plumbing and heating contractors, sponsored by Johns-Manville and its low pressure insulation distributors, together with the various local associations of Master Plumbers. An interesting innovation in connection with the group contractor meetings will be the inclusion of contractors' wives or other women associated with them in their business, in the list of invited guests.

"Asbestos Bonded Armco Paved Invert Pipe," is the title of a booklet just issued by Armco Culvert Manufacturers Association of Middletown, Ohio. The booklet is very attractively printed and illustrated, the material it describes having been mentioned in our July 1936 issue, page 16, in the article on Asbestos Protected Culverts.

The Asbestos Supply Company of Seattle, Wash., has purchased the insulation manufacturing plant of the Universal Insulation Company at N. 1318 Maple St., Spokane, Wash., according to announcement of J. W. Clise, Jr., General Manager of the former company.

One of the principal products manufactured at this plant is "Unifil," a vermiculite product used for fill insulation for walls and ceilings of residential construction, office buildings, and many other buildings; also for cold storage work. Other products are insulating cement marketed as "Uniplastic," and a fireproof accoustical paint.

The Asbestos Supply organization distribute and merchandise exclusively thruout the Pacific Northwest a number of well known insulating lines including asbestos and magnesia heat insulating products. The headquarters of the company is at Seattle, Wash., with three branch offices (at which stocks of the various lines it carries are maintained) at Portland, Ore., Tacoma, Wash., and Spokane, Wash. H. H. Eyman, who has been identified with insulation and the asbestos industry for several decades, is President of the Company; J. W. Clise, Jr., is General Manager and Vice-President; Charles H. Smith, formerly of the Celotex Company, is Sales Manager. Other members of the organization well known thruout the insulation industry are Bert Lyall in Spokane, George Baccrich and Edward E. Saberhagen in Portland, Sig Hillstrand in Tacoma and Elliott DeForest and Howard A. McCune in Seattle.

The Canadian Asbestos Company of Montreal, P. Q., Canada, has recently published a 32 page catalog on Canasco Insulating Materials. This catalog is very attractively printed and illustrated, and, better still, contains a number of tables on efficiencies of pipe coverings, proper thicknesses, etc.

Charles F. Henning, Vice President and Director of the United States Gypsum Co., died Saturday morning, October 3rd, at the Highland Park Hospital, Chicago, as a result of injuries sustained in an automobile accident Thursday night, October 1.

Mr. Henning was fifty-five years old. Virtually his entire business career had been spent with the United States Gypsum Co. He came to the Company as a construction engineer twenty-eight years ago, following his graduation from Lewis Institute, and short periods of employment with other concerns. In 1916 he was appointed manager of the Company's Contracting Department; in 1920, he was appointed assistant general sales manager and in 1921 he was appointed general sales manager. Shortly after he was elected vice president and a director.

Mr. Henning was one of the most widely known figures in the building industry. Because of the many lines the Company manufactures, including asbestos insulation materials, his contacts extended in several directions within the industry.

Pacific Coast Asbestos Association. The Annual Meeting of this Association will be held on October 22nd and 23rd at the Sir Francis Drake Hotel, San Francisco.

PATENTS

Friction Element. No. 2,049,522. Granted on August 4, to Ray E. Spokes and Hobard H. Willard, Ann Arbor, Mich., assignors to American Brakeblok Corp., New York City. Application March 17, 1934. Serial No. 716,173.

A friction element having a metallic formate therein which will decompose when subjected to friction heat in the use of the element to free metal on the friction surface of the element.

Heat Insulation Treating and Binding Compound. No. 2,050,089. Granted on August 4, to James P. Doyle, Santa Cruz,

Cal., assignor of one-half to Ernest E. Westergreen, Oakland, Cal. Application July 5, 1933. Serial No. 679,082.

A compound for treating and binding together layers of felt or similar heat insulation material, comprising a solution formed with approximately 9 parts by weight of corn paste, one part by weight of commercial acacia gum and eighty-five parts by weight of water.

Flexible Shingle. No. 2,050,218. Granted on August 4, to Herbert Abraham, New York, assignor to The Ruberoid Co., New York. Application October 12, 1933. Serial No. 693,286. Description upon request.

Conduit Construction. No. 2,050,968. Granted on August 11, to Christian Gottwald, Cleveland Heights, Ohio, and William S. McLeish, New York City, assignors to the Ric-wiL Company, Cleveland, O. Application March 25, 1933. Serial No. 662,770.

A guide for use in a conduit system, having a fluid conducting pipe within a casing, the guide comprising a flat, rigid sheet of shape and size to fit substantially within and across the casing and extending substantially from side to side and to substantially the top thereof, an aperture in said guide substantially fitting the exterior of the pipe a bearing secured to said guide and a roller on said bearing in contact with the bottom of said casing.

Thermal Insulation. No. 2,051,076. Granted on August 18 to Harry Deakin, Union, N. J., assignor to Johns-Manville Corporation. Application February 1, 1935. Serial No. 4,588.

In making a freely opening sectional tubular thermal insulating article, the method which comprises forming a tube of thermal insulating material, severing the tube completely and continuously in a single, approximately longitudinal zone, adhering a flexible wrapper to material adjacent to each side of the said zone and then completely and continuously severing the product in a longitudinal zone approximately opposite the first mentioned zone.

Preformed Product. No. 2,051,532. Granted on August 18 to Homer L. Rogers, Dayton, Ohio, assignor to Johns-Manville Corporation, New York City. Application March 26, 1931. Serial No. 525,372.

A method of making a pre-formed unit which comprises mixing bituminous material and fibrous reinforcement therefor at an elevated temperature until the resulting mass is partially broken up, then adding finely divided diatomaceous earth in amount corresponding to approximately 5 to 7% of the said mass, continuing the mixing until the resulting product is formed partly into balls, promptly extruding the resulting balled-up mixture and then causing the diatomaceous earth to become saturated with the said bituminous material, whereby the stiffness of the mass at a given temperature is increased subsequent to the extrusion.

Packing. No. 2,051,626. Granted on August 18 to Edward

H. C. Wells, Jr., New York City, assignor to Johns-Manville Corporation, New York City. Application April 16, 1934. Serial No. 720,672.

In making a gasket tape the method which comprises assembling face to face strips of flexible material adapted for use in packing, inserting uniting means at intervals thru the longitudinal meeting portion of the assembled strips from face to face to hold the strips together and folding each strip upon itself along the said longitudinal meeting portion as an axis and in direction away from the strip whereby each original strip is caused to form a side element of the finished tape.

TRADE MARKS

This information is supplied by the National Trade Mark Co., Munsey Bldg., Washington, D. C., who will conduct free of charge an advance search on any trade mark our readers may contemplate adopting.

Ironset. Serial No. 379,762. Plibrico Jointless Firebrick Co., doing business as Fireline Stove & Furnace Lining Co., Chicago, Ill. Filed June 15, 1936. For asbestos furnace and retort cement. Passed on August 25.

Zerotape. Serial No. 380,006. Johns-Manville Corp., New York City. Filed June 20, 1936. For friction binder for thermal insulation. Passed on Sept. 8.

Zeroseal. Serial No. 380,004. Johns-Manville Corp., New York City. Filed June 20, 1936. For Plastic Bituminous Coating. Passed Sept. 8, 1936.

Zerotex. Serial No. 380,005. Johns-Manville Corp., New York City. Filed June 20, 1936. For thermal insulating material. Passed Sept. 8, 1936.

Amco. Serial No. 363,545. Asbestos Manufacturing Co., Huntingdon , Ind. Filed April 9, 1935. For Brake Lining Sets, composed of asbestos with rubber synthetic resins, in combination with graphite, bayles, zinc oxide, etc. Passed Sept. 30, 1936.

Flexiformed. Serial No. 372,954. The Bondall Co., St. Louis, Mo. Filed Dec. 23, 1935. For molded products containing asbestos, viz: brake linings and clutch facing.

AUTOMOBILE PRODUCTION

Automobile Production for August 1936 amounted to 275,951 motor vehicles (271,291 for the United States and 4,660 for Canada). This compares with a total production in August 1935 of 245,075 motor vehicles (237,400 in the United States and 7,675 in Canada) and with a total production in July 1936 of 451,474 (440,999 in the United States and 10,475 in Canada).

For the eight months ending August 1936, the total production was 3,322,249 motor vehicles (3,201,166 in the United States and 121,083 in Canada; compared with 2,919,900 in the eight months ending August 1935 (2,787,764 in the United States and 132,136 in Canada).

THIS and THAT

An English decorating firm, so we are told, recently used heavily corrugated asbestos (meaning, we suppose, asbestos corrugated sheathing), painted a light color, for one wall of a dining room, this contrasting sharply with furniture in dull blue and black lacquer.

It seems odd that despite inquiries to asbestos textile manufacturers and others, nothing can be learned as to whether experiments really are being made in connection with the use of asbestos yarn in the manufacture of automobile tires.

Both the Asbestos Textile manufacturers and the Rubber Tire Manufacturers are interested in this subject but so far we have failed to unearth anything which would give us an inkling as to whether the rumor is really founded upon fact.

Again we urge all our readers, as we did in our August number, to advise us of anything which might have any sort of bearing on this most interesting problem.

General Electric Company during the third quarter of 1936 received orders amounting to $74,922,441, compared with $54,400,819 during the third quarter of 1935, an increase of 38 per cent.

Orders received during the nine months amounted to $211,891,038, compared with $158,943,765 during the nine months last year, an increase of 33 per cent. Orders received during the third quarter and first nine months of this year were larger than for any respective period since 1930.

It is said that two thirds of the noise can be eliminated from London "Tubes" by the laying of asbestos shields below the track, where they catch the sound, absorb it and keep it from rising higher. This method has been tried out on one line and will be applied to others. It will take five years to bring 200 miles under control.

ASBESTOS

TEXTILE PRODUCTS

made of asbestos fibre obtained from Africa, Arizona and Canada—each selected for specific qualities and properly blended to produce:—

Maximum strength and heat resistance.
Minimum iron for electrical purposes.
Non-scoring rod and valve packing.
Frictional properties in brake lining.

GARCO roving, yarn, cord, cloth, tape, tubing, rope, wick, wicking and other asbestos textile products give satisfaction because they are made of the best fibre for the particular purpose on modern equipment by skilful workmen.

Commercial Grade
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GENERAL ASBESTOS & RUBBER DIVISION

of

RAYBESTOS-MANHATTAN, Inc.
NORTH CHARLESTON, S. C.

"The Recipe"

By Berton Braley

It's doing your job the best you can
And being just to your fellow man;
It's making money—but holding friends
And striving true to your aims and ends;
It's figuring how and learning why
And looking forward and thinking high
And dreaming a little, and doing much.
It's keeping always in closest touch
With what is finest in word and deed;
It's being thoro, yet making speed;
It's daring blithely the field of chance,
While making labor a brave romance;
It's going onward despite defeat,
And fighting staunchly, but keeping sweet;
It's being clean and it's playing fair;
It's laughing lightly at Dame Despair;
It's looking up at the stars above,
And drinking deeply of life and love;
It's struggling on with the will to win,
But taking loss with a cheerful grin;
It's sharing sorrow and work and mirth
And making better this good old earth;
It's serving, striving thru strain and stress,
It's doing your Noblest—that's Success!

South Works Review.